MONTY HALL PROBLEM:

*(This material in this article was originally published in PARADE magazine in 1990 and 1991.)*

Suppose you're on a game show, and you're given the choice of three doors. Behind one door is a car, behind the others, goats. You pick a door, say #1, and the host, who knows what's behind the doors, opens another door, say #3, which has a goat. He says to you, "Do you want to pick door #2?" Is it to your advantage to switch your choice of doors?  
  
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Answer the following questions on a separate document as you go.

1. Does it matter if you switch or not? What do you think and why?

2. Run 50 trials on one of these sites. Take a screen shot of your results: [http://www.nytimes.com/2008/04/08/science/08monty.html?\_r=0](http://www.nytimes.com/2008/04/08/science/08monty.html?_r=0" \t "_blank) or [http://www.stat.tamu.edu/~west/applets/LetsMakeaDeal.html](http://www.stat.tamu.edu/~west/applets/LetsMakeaDeal.html" \t "_blank)

3. Read either <http://math.ucsd.edu/~crypto/Monty/montybg.html> or <http://montyhallproblem.com/> for an explanation on the answer.

Write 1-2 paragraphs explaining the real answer. Your answer must be detailed. You may include illustrations if it helps.

Note: Do not plagiarize or you will receive a 0 on this assignment. I want to see your thinking, not someone else’s.

4. Read some of the comments to the person who answered this question the first time: <http://marilynvossavant.com/game-show-problem/>

Why do you think this problem caused so much uproar?

Due Thursday at the start of class

Make sure you have answered all four parts.

10 points